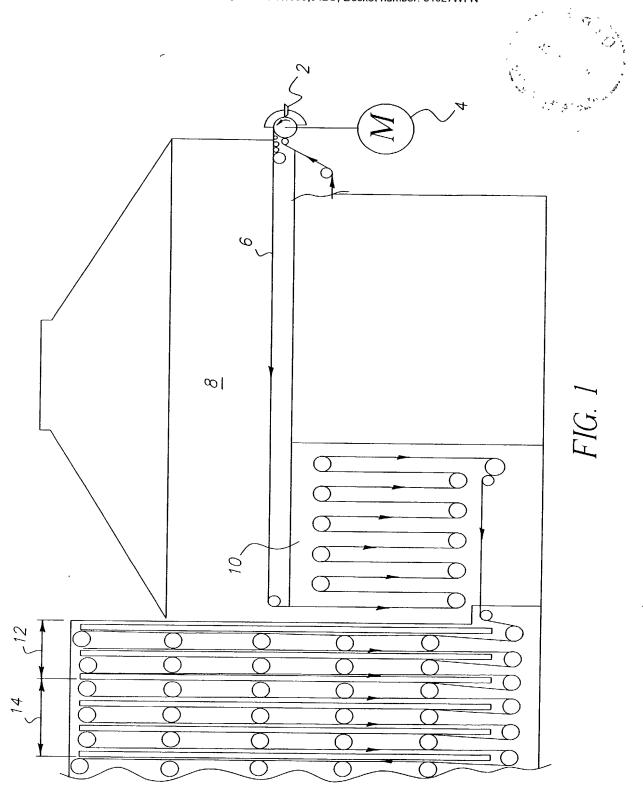
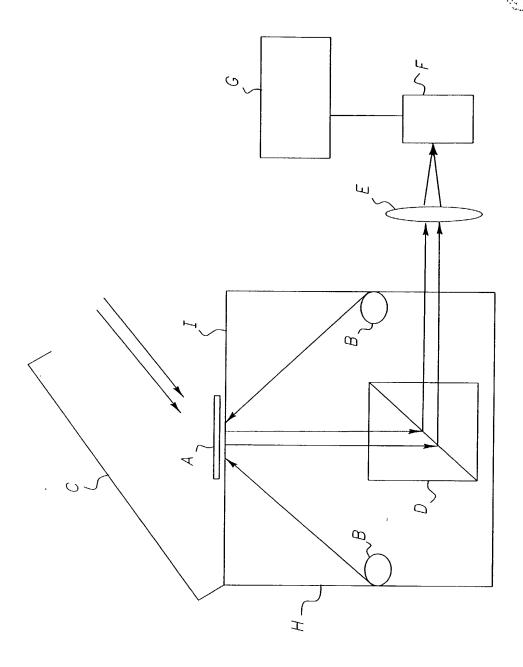
TITLE. RANDOM ARRAY OF MICRO-SPHERES FOR THE ANALYSIS OF NUCLEIC ACID USING ENZYME DIGESTION
INVENTOR: Qiao et al., USSN: 10/098,642O, Docket number. 84027WFN



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TITLE. RANDOM ARRAY OF MICRO-SPHERES FOR THE ANALYSIS OF NUCLEIC ACID USING ENZYME DIGESTION INVENTOR, Qiao, et al., USSN, 10/098,642O, Docket number: 84027WFN STEP 1. HYBRIDIZATION OF CHEMILUMINESCENTLY FLUORESCENTLY LABELED NUCLEIC ACID SAMPLE ONTO THE MICROSPHERE COATED MICROARRAY 110 STEP 2. REMOVAL OF NON-SPECIFICALLY BOUND CHEMILUMINESCENTLY /FLUORESCENTLY LABELED NUCLEIC ACID BY WASHING THE MICROARRAY IN BUFFER SOLUTION. 120 STEP 3. WHOLE FRAME IMAGING CAPTURE OF CHEMILUMINESCENTLY/FLUORESCENTLY IMAGE RESULTED FROM THE HYBRIDIZATION INTERACTION OF UNKNOWN NUCLEIC ACID SEQUENCES WITH PROBE SEQUENCES (IMAGE1) . 130 STEP 4. WHOLE FRAME IMAGING CAPTURE OF THE MICROARRAY UNDER BRIGHT FIELD ILLUMINATION TO OBTAIN MICROSPHERE COLOR SIGNATURE/ BARCODE IMAGE (IMAGE2). 140 STEP 5. IDENTIFICATION OF UNKNOWN NUCLEIC ACID IN THE SAMPLE SOLUTION BY COMPUTER ANALYSIS OF IMAGE1 AND IMAGE2 USING PATTERN RECOGNITION ALGORITHM.

A STATE

FIG. 3

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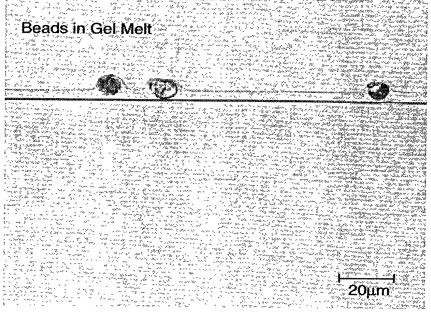


Fig. 4A

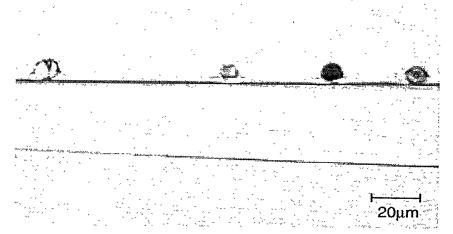


Fig. 4B

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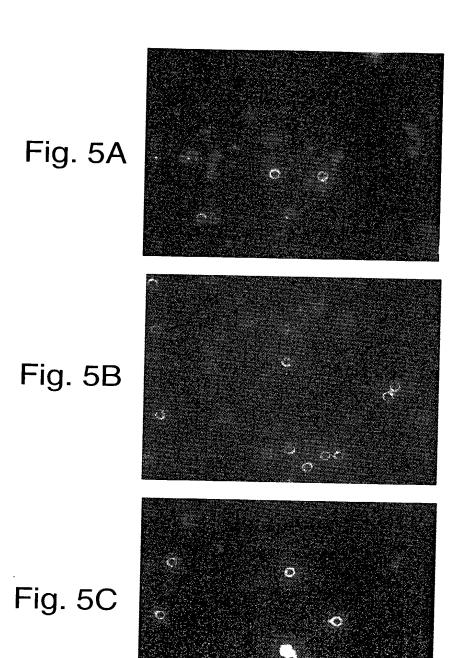
20μm

Fig. 4C

 $20 \mu m$

Fig. 4D

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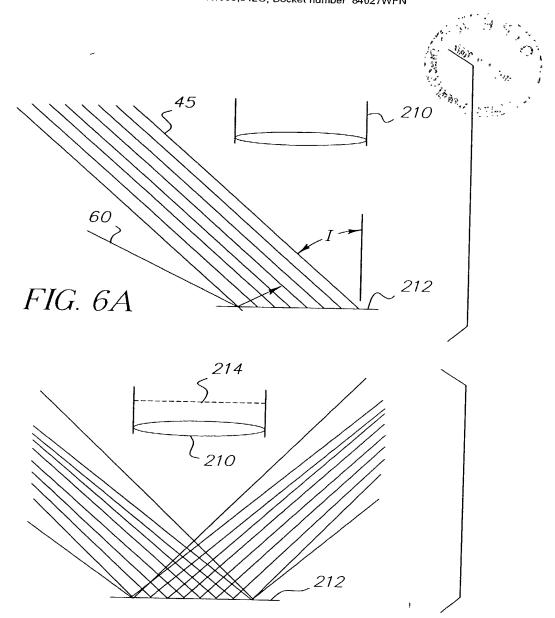


FIG. 6B

